

STEREO MOC Status Report
Time Period: 2007:127 - 2007:133

STEREO Ahead (STA) Status:

1. The following Ground System events and anomalies occurred during this reporting period:

- On DOY 124 (from the previous reporting period), it was determined that sporadic IDR files from the DSN CDR were being truncated before all data was received in the STEREO MOC. DSN is actively investigating the problem and the MOps staff is manually monitoring the IDR files for future occurrences, re-transmitting the files from the DSN when truncation is identified.
- A second network Point Of Presence was installed in Mod 6 on day 130. This POP will service the backup T-1 lines to GSFC. These lines were successfully tested during the track on Ahead on day 130 with DSS-45.
- On day 132 during the track with DSS-26, the Ahead spacecraft was occulted by the moon from 15:29Z to 16:47Z. The occultation began after the SSR had been played back, so the only data loss was from 15:29Z through 15:55Z when the SSR playback was disabled. The Stored Command Buffer Dump did not occur during this track.
- On day 132 all network interconnections at APL were down from 1000Z through day 133 at 0100Z due to the repair of a failed UPS. Since the MOC DMZ Network could not receive telemetry during this time, the tracks during the down period were run attended. This network repair also prevented the POCs from sending commands or receiving real-time telemetry or data products.

2. Ahead spacecraft performance continues to be very good with all subsystems performing nominally. IMU 2 continues to be used nominally on the Ahead spacecraft. The following list summarizes the spacecraft/instrument events which occurred during this week:

- The average daily SSR playback volume for Ahead was 10.8 Gbits during this week.

- The SECCHI Campaign continued throughout this week with an added second track each day to play back SECCHI data.
- On day 128 the G&C wheel speed avoidance region parameter was increased from 15 to 20 rad/sec in RAM. This change was made to improve performance during 0 momentum crossings.
- On day 129, new Fault Protection Autonomy Rules number 124 (non-EA Mode) and 125 (EA Mode) were loaded. These rules provide added protection in case of IMU 2 failure by configuring G&C to not use the IMU gyro rate information, turn on and enable the star tracker for use, and demote the spacecraft to Standby Mode (non-EA Mode only).

STEREO Behind (STB) Status:

1. The following Ground System events and anomalies occurred during this reporting period:

- On DOY 124 (from the previous reporting period), it was determined that sporadic IDR files from the DSN CDR were being truncated before all data was received in the STEREO MOC. DSN is actively investigating the problem and the MOps staff is manually monitoring the IDR files for future occurrences, re-transmitting the files from the DSN when truncation is identified.
- A second network Point Of Presence was installed in Mod 6 on day 130. This POP will service the backup T-1 lines to GSFC.
- On day 131 during the track with DSS-54, the command state changed to Aborted at 0035Z. Due to this anomaly, the Instrument Stored Command Buffer was not dumped.
- On day 132 all network interconnections at APL were down from 1000Z through day 133 at 0100Z due to the repair of a failed UPS. Since the MOC DMZ could not receive telemetry during this time, the tracks during the down period were run attended. This network repair also prevented the POCs from sending commands or receiving real-time telemetry or data products.

2. Behind spacecraft performance continues to be very good with all subsystems performing nominally. The following

list summarizes the spacecraft/instrument events which occurred during this week:

- The average daily SSR playback volume for Behind was 11.0 Gbits during this week.
- The SECCHI Campaign continued throughout this week with an added second track each day to play back SECCHI data.